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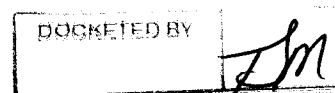
September 07, 2012

Arizona Corporation Commission  
Docket Control  
1200 W. Washington St.  
Phoenix, AZ 85007

Arizona Corporation Commission  
**DOCKETED**

SEP 10 2012

Smart meter docket #E-00000C-11-0328



To Whom It May Concern:

This filing for the Smart meter docket #E-00000C-11-0328 contains an original filing plus 13 copies and is being filed on behalf of the Safer Utilities Network.

Sincerely,

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August 2012,

**National Institute of Standards and Technology acknowledges that PLC signals can travel between homes.**

Some utilities claim that the power line communication (PLC) signals do not travel into the home from the outside. Thus, they claim, there can be no problem with health effects from the dirty electricity that is another name for PLC signals.

The U.S. National Institute of Standards and Technology (NIST) thought otherwise and created the Smart Grid Interoperability Panel (SGIP), which in turn created the PAP-15 working group to look into the co-existence of various types of PLC systems. The problem of interest is that PLC signals from different vendors may interfere with each other, even if used in separate buildings.

In the write up for the PAP-15 working group, there is the following rationale under the heading of "Why is Coexistence Important"

*...a user in one apartment or house may interfere with the signals generated in an adjacent house or apartment. Since it is difficult to contain locally the signals generated by the user, the more users in geographical proximity that use PLC technologies operating in the same frequency band, the more interference is generated on the power line both indoors and outdoors.*

From the above, it is very clear that the NIST engineers fully accept that PLC signals can travel from house to house on the power lines.

Source: NIST Smart Grid Collaboration Wiki/Smart Grid Interoperability Panel Site, PAP-15.  
<http://collaborate.nist.gov/twiki-sggrid/bin/view/SmartGrid/PAP15PLCForLowBitRates>  
(Scroll down to: Why Is Coexistence Important)



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